

**CLASS SPECIFICATION**  
**County of Fairfax, Virginia**

**CLASS CODE:** 6408

**TITLE:** WELDER II

**GRADE:** S-17

**DEFINITION:**

Under supervision, performs a wide range of welds from simple welding to precision welding including, when required, welding on boilers and other pressure vessels; and performs related work as required.

**DISTINGUISHING CHARACTERISTICS OF THE CLASS:**

None.

**ILLUSTRATIVE DUTIES:**

Welds and brazes metal to repair broken or cracked objects or to fabricate new parts and equipment;

Uses acetylene, electric and inert gas shielded welding processes;

Works with steel, aluminum, brass and cast iron and may perform soldering;

Work processes include planning and laying out the work, measuring and cutting metal stock to size, cleaning, and assembling or positioning work pieces, setting up and adjusting welding equipment, preheating, bead welding, tack welding, brazing, flame cutting, heat treating and chipping or grinding off excess weld slag or spatter;

May weld pipe and pressure vessels such as boilers, headers, hot water storage tanks, etc.;

Drives a vehicle to and from work locations and keeps vehicle supplied with tools and materials;

Performs operator maintenance on vehicle and keeps it in orderly condition;

Keeps records and makes reports of work accomplished and materials used;

Exercises safety in dealing with hazardous welding by-products;

May supervise and instruct trades helpers.

**REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:**

Considerable knowledge of the equipment, materials, methods, practices, and tools used in the welding trade;

Working knowledge of local, state and national codes;

Knowledge of the common hazards and necessary safety precautions;

Skill in the use of tools, equipment, and materials pertinent to the trade;

Ability to fully plan and perform work of the trade;

Ability to follow written and oral instructions, diagrams, blueprints and manufacturers' manuals;

Ability to estimate time and material needs, determine when repair is not economically practical, and to perform routine clerical tasks and arithmetical computations;

Ability to maintain good interpersonal relationships;

Strength and dexterity necessary to perform all required tasks including lifting, stooping, bending, working in tiring and uncomfortable positions and from ladders and scaffolds.

**EMPLOYMENT STANDARDS:**

Any combination of education, experience, and training equivalent to:

Completion of the tenth grade; AND  
Two years experience in the welding trade.

**CERTIFICATES AND LICENSES REQUIRED:**

Possession of a valid Motor Vehicle Driver's License; OR

Contingent upon area of assignment, some positions in this class may require a Commercial Driver's License.

May be required to provide copies of driving record periodically for verification of driving status.

Depending upon area of assignments, American Society of Mechanical Engineers certification to weld pipe and pressure vessels.

REVISED: May 21, 1992

REVISED: August 3, 1981